

# Sophia Cofone

Portfolio: [sophiacofone.github.io](https://sophiacofone.github.io) | GitHub: [github.com/sophiacofone](https://github.com/sophiacofone) | LinkedIn: [linkedin.com/in/sophia-cofone/](https://linkedin.com/in/sophia-cofone/)

| [REDACTED] | [REDACTED] | South Portland, ME | Boston, MA

## EDUCATION

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**Northeastern University - Khoury College of Computer Sciences**, Roux Institute - Portland, ME

*Masters of Science in Data Science Candidate*, GPA 3.9/4.0

*Expected Spring 2024*

*Coursework*: Discrete Mathematics, Programming for DS, Linear Algebra and Probability, Algorithms, Statistical Learning

**University of Massachusetts Amherst - Isenberg School of Management**, Amherst, MA

*Bachelor of Business Administration in Accounting (Minor: Philosophy)*, GPA 3.9/4.0

*Graduated Spring 2020*

*Relevant coursework*: Intro Problem Solving W/Comp in Java, Business Intel & Analytics in SQL

## TECHNICAL KNOWLEDGE

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Python • Javascript • Git • Tableau • SQL

## HIGHLIGHTED PROJECTS

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### Bayes' Rule Visualization using Spotify data

November - December

2021

*Northeastern University* - [github.com/sophiacofone/Bayes-Rule-Visualization-Spotify](https://github.com/sophiacofone/Bayes-Rule-Visualization-Spotify)

- Designed a program which applies Bayesian model inference to a theoretical biased-coin experiment, and a "real-world" scenario using user generated Spotify data
- Produced visualizations demonstrating the posterior result, including how the original prior shifts given new experimental information
- Leveraged the numpy, matplotlib, and scipy packages to support my calculations and create the visualizations

### Vaccines Project and Maine Broadband Project

Spring 2022

*Northeastern University* - <https://ds5010.github.io/broadband/> • <https://github.com/ds5010/broadband>

*Northeastern University* - <https://ds5010.github.io/vaccines/> • <https://github.com/ds5010/vaccines>

- Co-managed two class projects by reviewing code/merge requests, developing time-lines, and delegating tasks
- Executed exploratory data analysis by cleaning data, merging together several data sources, and visualizing data
- Refined the "story" of the data via communication with external stakeholders
- Produced animated visualizations and contributed to the project website design using HTML, CSS, and JS

## WORK EXPERIENCE

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**Omnic Data**, Brunswick, ME

*August 2022 - September 2022*

*Software Assist*

- Created histogram, scatter plot, bar chart, line chart, tree graph/dendrogram, and heat map data visualizations using D3 and Javascript to present a range of insights to the user; from high-level to granular
- Added interactivity to the visualizations, allowing the user to filter the data and customize the graphs
- Implemented the visualizations in the web application, including the creation of views, controllers, and database queries using Ruby and ActiveRecord
- Built data pipelines in javascript to transform raw data to a usable form for specific visualization applications
- Researched the needs of the user, and incorporated stakeholder feedback, into future iterations of the visuals

**PricewaterhouseCoopers**, Boston, MA

*September 2020 - June 2021*

*Experienced Associate - ESG (Environmental, Social, Governance) & Process Assurance*

- Analyzed ESG standards (e.g. SASB) and rating agency methods (e.g. MSCI, ISS, TCFD) to identify steps clients should take to elevate ESG reporting, including resource allocation
- Created custom ESG metrics based on stakeholder interviews to identify key data areas for clients to track over time
- Produced data visualizations to provide high-level view of material ESG topics relative to client's industry
- Owned the creation, documentation, and testing of new IT areas such as database access reviews
- Reviewed client internal audit and PwC associate IT control testing to ensure completeness and accuracy
- Communicated daily with clients during fieldwork to gain deeper understanding of audit areas and resolve issues